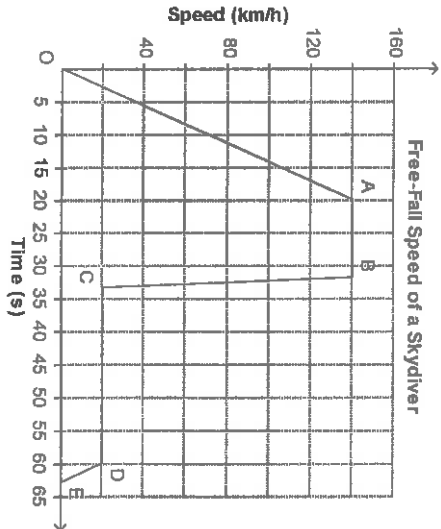


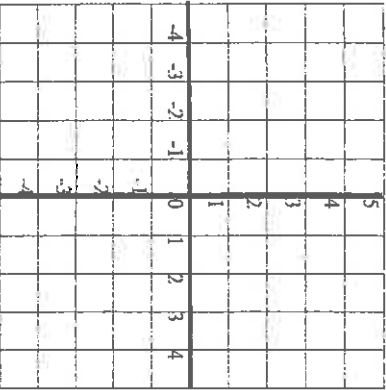
NAME: \_\_\_\_\_ NAMES OF GROUP MEMBERS: \_\_\_\_\_

**Directions:** Roll the dice. Whoever gets the highest number will begin. To start, the first person selects one of the five subtopics, then rolls one die to determine the number of statements he or she must make about the chosen subtopic. The other students should take notes as the first student shares information. EACH student completes the corresponding example. Compare your solutions as a group. The next student chooses the second subtopic and so on until all group members have had a turn and/or all the subtopics have been completed. This is a group activity - WORK TOGETHER!

SUBTOPIC	RELATED INFORMATION	EXAMPLE
REPRESENTING RELATIONS 5.1		<p>1. Here is a list of some chemical elements and their atomic numbers:                      hydrogen (1), oxygen (8), iron (26), chlorine (17), carbon (6), silver (47)</p> <p>For each association described below, use these data to represent a relation in different ways.</p> <p>a) has an atomic number of                      b) is the atomic number of</p>

SUBTOPIC	RELATED INFORMATION	EXAMPLE
PROPERTIES OF FUNCTIONS 5.2		<p>2. The function <math>P(n) = 5n - 300</math> describes the profit, <math>P</math> dollars, for a school dance when <math>n</math> students attend.</p> <p>a) Write the function as an equation in 2 variables.</p> <p>b) Identify the independent and dependent variable. Justify your choice.</p> <p>c) Determine the value of <math>P(150)</math>. What does this number represent?</p> <p>d) Determine the value of <math>n</math> when <math>P(n) = 700</math>. What does this represent?</p>

SUBTOPIC	RELATED INFORMATION	EXAMPLE
<p>INTERPRETING AND SKETCHING GRAPHS 5.3</p>		<p>3. This graph shows the free-fall speed of a skydiver as a function of time. Describe what is happening for each segment of the graph.</p> 

SUBTOPIC	RELATED INFORMATION	EXAMPLE
<p>GRAPHS AND RELATIONS OF FUNCTIONS 5.5</p>		<p>4. Sketch a graph of a function that has each domain and range.</p> <p>a) domain: <math>\{-1 \leq x \leq 4\}</math>; range: <math>\{0 \leq y \leq 3\}</math>  b) domain: <math>(-\infty, 1]</math>; range: <math>(-2, 2]</math></p> 
<p>PROPERTIES OF LINEAR RELATIONS 5.6 (A)</p>		<p>5. Which <b>sets</b> of ordered pairs represent linear relations? Explain your answers.</p> <p>a) <math>\{(1,5), (5,5), (9,5), (13,5)\}</math>      b) <math>\{(-2,-3), (-1,-2), (2,1), (4,-3)\}</math></p>